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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _12 July 2007_.

2a)☐ This action is **FINAL.**   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-21_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-21_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08)
    Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

1.   As of entry of the amendment and RCE filed on 07/12/2007, claims 1-21 are

pending in this application. Applicant's arguments with respect to claims 1-21 have

been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

2.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-13, and 16-21 are rejected under 35 U. S. C. § 102 (e) as being

anticipated by Avery et al. (U.S. Pub. No. 2005/0005259).

With respect to claims 1, and 16-17, and 21, Avery et al. discloses an

apparatus for permitting a user to manipulate data within a data processing system

comprising:

an enterprise server (106) (*i.e., "mobile server" (fig. 1)*) containing a data base (*i.e., "each*

having a database 120 for storage of data" (0018) or "Application database 320" (fig. 3)) having a plurality

of data objects (*i.e., "System 100 is configured to communicate and map (or transform) business objects*

(including data) between a mobile client device 102 and the plurality of backend systems 108 and vice versa"(0018)

or "Mobile Business Objects" (312) (fig. 3)) ;

a version property associated with one of said plurality of data objects (*i.e., "Mobile*

Business Objects" (312)(fig. 3) or "When a mobile client devices requests synchronization, the synchronization

management module 406 queries a backend system to get the current version of the data in the backend. The current

version of the data from the backend is then compared with the current version of the client data. Synchronization

management module 406 then determines whether the client side data or backend data needs to be updated" (0047)

and Examiner asserts that "current version of the data from the backend" is equivalent with "a version property") ;

a terminal (*i.e., Mobile Client device 102" (fig. 1)*) having a session which generates a

request under control of said user involving access to said one of said plurality of data

objects (*i.e., "the mobile server per requests made by the mobile client device 202 when, for example, a user*

selects menu options or presses web document buttons via the Web browser 204 and user interface 214" (0028)) ;

a version list associated with said session having an assumed version property

(*i.e., "Thick client application 216 and its components are configured to maintain inventory version information in*

a local registry... When mobile client device 202 is synchronizing with the mobile server, the registry entries for

each application and component will be set with the most recent release available" (0035)) ;

comparing means responsively coupled to said data base for comparing said

assumed version property with said version property (*i.e., "When a mobile client devices requests*

synchronization, the synchronization management module 406 queries a backend system to get the current version

of the data in the backend. The current version of the data from the backend is then compared with the current

version of the client data. Synchronization management module 406 then determines whether the client side data or

backend data needs to be updated" (0047)); and

an update facility with update said version list from said database if said

comparing means finds said assumed version property does not equal said version

property (*i.e., "When the thick client application 216 is started next, it will check its entry in the registry to*

determine if an upgrade is available" (0035) or "The current version of the data from the backend is then compared

with the current **version** of the client data. Synchronization management module 406 then determines whether the

client side data or backend data needs to be updated" (0047)) .

With respect to claims 2 and 18, Avery et al. discloses wherein said user

session further comprises a JavaScript object (*i.e., "user interface 114 on the mobile client device is*

written using known industry standard user interface development languages, e.g., HTML, JavaScript," (0026))

With respect to claim 3, Avery et al. discloses wherein each of said plurality of

data objects has a separate version property associated therewith (*i.e., "system for*

communication and mapping of business objects between a mobile client device and a plurality of backend systems

via a network includes a mobile server and a mobile client device in data communication with the mobile server"

(0007) and "A workflow defines how different tasks and the data associated with the tasks are collected,

transformed and integrated with various backend systems" (0022) and "a different mobile version of each backend

application may be required to access the data" (0004)) .

With respect to claim 4, Avery et al. discloses wherein said terminal is

responsively coupled to said enterprise server containing said data base via a publically

accessible digital data communication network (*i.e., "system for communication and mapping of*

business objects between a mobile client device and a plurality of backend systems via a network includes a mobile

server and a mobile client device in data communication with the mobile server"(0007) or "network 104 may be

any type of network such as a virtual private network, the Internet, an intranet, an Ethernet, etc. Network 104

preferably operates in accordance with the TCP/IP (Transmission Control Protocol/Internet Protocol) protocol"

0021)).

With respect to claim 5, Avery et al. discloses wherein each of said version

properties is stored within said data base (*i.e., "When a mobile client devices requests synchronization,*

the synchronization management module 406 queries a backend system to get the current version of the data in the

*backend. The current **version** of the data from the backend is then **compared** with the current **version** of the client*

data. Synchronization management module 406 then determines whether the client side data or backend data needs

to be updated" (0047) and Examiner asserts that "current version of the data from the backend" is equivalent with

*"a version property" and further "A workflow defines how **different tasks** and the data associated with the tasks are*

*collected, transformed and integrated **with various backend systems**" (0022)).*

With respect to claims 6, and 11-12, Avery et al. discloses an apparatus and a

method of maintaining synchronization within a system permitting to a user to utilize a

terminal to access a plurality of instance of a given object within an enterprise server

(*i.e., "system for communication and mapping **of business objects** between a mobile client device and **a plurality of***

***backend** systems via a network includes a mobile server and a mobile client device in data communication with the*

mobile server" (0007)) comprising:

storing a version property within a data base containing said dataset object (*i.e.,*

"Mobile Business Objects" (312)(fig. 3) or "When a mobile client devices requests synchronization, the

synchronization management module 406 queries a backend system to get the current version of the data in the

backend. The current version *of the data from the backend is then* compared *with the current* version *of the client*

data. Synchronization management module 406 then determines whether the client side data or backend data needs

to be updated" (0047) and Examiner asserts that "current version of the data from the backend" is equivalent with

"a version property") ;

preparing a version list associated with a user session containing an assumed

version property (*i.e., "Thick client application 216 and its components are configured to maintain **inventory***

***version information** in a local registry... When mobile client device 202 is synchronizing with the mobile server,*

the registry entries for each application and component will be set with the most recent release available" (0035)) ;

requesting access to said dataset object from said user session (*i.e., "the mobile*

server per requests made by the mobile client device 202 when, for example, a user selects menu options or presses

web document buttons via the Web browser 204 and user interface 214" (0028)) ;

comparing said assumed version property to said version property (*i.e., "When a*

mobile client devices requests synchronization, the synchronization management module 406 queries a backend

system to get the current version of the data in the backend. The current version *of the data from the backend is then*

compared *with the current* version *of the client data. Synchronization management module 406 then determines*

whether the client side data or backend data needs to be updated" (0047))

and updating said version list from said data base if said comparing step (*i.e.,*

"When the thick client application 216 is started next, it will check its entry in the registry to determine if an

upgrade is available" (0035) or "The current version *of the data from the backend is then* compared *with the*

current version *of the client data. Synchronization management module 406 then determines whether the client side*

data or backend data needs to be updated" (0047)) .

With respect to claims 7, 13 and 20, Avery et al. discloses wherein a javascript

object (*i.e., "user interface 114 on the mobile client device is written using known industry standard user*

interface development languages, e.g., HTML, JavaScript," (0026)) .

With respect to claims 8 and 19, Avery et al. discloses wherein said version list

is stored within a first memory which is faster than a second memory wherein said

database is stored (*i.e., "Mobile client device 202 also includes a client device operating system 206 (e.g.,*

Windows CE), native data storage 206 and cached data storage 210" (0027) and Examiner asserts that cache

memory are always faster than other memory, "business objects" is presented to "version list" and further "Thick

client application 216 is configured to perform a plurality of functions including presentation and formatting of

data, managing persistence of **locally cached data,** *synchronizing the data with the mobile server when network*

connectivity is available and handling application upgrades and data conversion requirements for version *control"*

*(0030) and "*local caching *of business objects is provided on the mobile client device 202" (0031)*) .

With respect to claim 9, Avery et al. discloses wherein said requesting step

occurs over a publically accessible digital data communication network (*i.e., "the mobile*

server per requests made by the mobile client device 202 when, for example, a user selects menu options or presses

web document buttons via the Web browser 204 and user interface 214" (0028) or "user interface 114 is part of a

thin client application, e.g., a Wireless Application Protocol (WAP) or Internet capable Web browser (e.g.,

Netscape or Microsoft Internet Explorer, etc.) on the mobile client device 102"(0026)) .

With respect to claim 10, Avery et al. discloses wherein said assumed version

property is transferred via said publically accessible digital data communication network

during said requesting step (*i.e., "When mobile client device 202 is synchronizing with the mobile server,*

the registry entries for each application and component will be set with the most recent release available" (0035)

and Examiner asserts that based on fig. 1, the mobile Client device 102 is synchronizing with the mobile server 106

over the network 104) .

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

Claims 14-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Avery et al. (U.S. Pub. No. 2005/0005259) in view of Spellman et al. (U.S. Patent

No. US005917485A).

With respect to claim 14, Avery et al. discloses all limitations of claimed

invention recited in claim 13 except Mapper data base management system. However,

Spellman et al. discloses Mapper data base management system (*i.e., "MAPPER is a*

commercially available data management and reporting system provided by Unisys Corporation" (col. 8, line 10-

15)). It would have been obvious at the time the invention was made to a person having

ordinary skill in the art to modify Avery et al.'s system by using the Mapper data base

management system in order to have data base management system in an efficient

multi-user environment and to enable the user to utilize either access technique, the

logic for each individual assistance function for the stated purpose has been well known

in the art as evidenced by teaching of Spellman (*col. 2, line 28-38*).

With respect to claim 15, Avery et al. discloses wherein said requesting means

further comprising an industry standard personal computer (*i.e., "a mobile telephone, a handheld*

PDA (Personal Digital Assistant), a handheld computer, a laptop computer, or any other mobile computing device,

etc" (0018)) .

Response to Arguments

4.   Applicant's arguments with respect to claims 1-21 have been considered but are

moot in view of the new ground(s) of rejection.

Conclusion

5.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hung T. Vy whose telephone number is 571-2721954.

The examiner can normally be reached on 8.30am - 5.30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Don Wong can be reached on 571 272 1834. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Hung T. Vy
Art Unit 2163
September 18, 2007.